Name _____

Break Apart Ones to Add

Sometimes when you are adding, you can break apart ones to make a ten.

$$37 + 8 = \underline{\ ?\ }$$

Look at the two-digit addend, 37. What digit

is in the ones place? $\underline{\ 7\ }$

Decide how many you need to add to the ones digit to make 10.

$$7 + \underline{\ 3\ } = 10, \text{ and } 37 + \underline{\ 3\ } = \mathbf{40}$$

Break apart that number from the one-digit addend, 8.

$$8 - 3 = \mathbf{5}$$

Finally, write the new number sentence. $40 + 5 = \underline{\ 45\ }$

Break apart ones to make a ten. Then add and write the sum.

1. $28 + 6 = \underline{\ \ \ }$

2. $34 + 7 = \underline{\ \ \ }$

Name _____

Use Compensation

This is a way to add 2-digit numbers.
Take ones from one addend to make the other addend a tens number.

$27 + 38 = \underline{?}$

First, find the addend with the greater ones digit. $\underline{38}$
How many ones would you need to add to make it a tens number?

$\left(38 + \underline{} = 40\right)$ Add $\underline{2}$ to make $\underline{40}$.

Next, take that many ones away from the other addend.

$\left(27 - 2 = 25\right)$ The two new addends are $\underline{25}$ and $\underline{40}$.

Write the new addition sentence to find the sum.

$\underline{25} + \underline{40} = \underline{65}$

Show how to make one addend the next tens number.
Complete the new addition sentence.

1. $28 + 16 = ?$

$\underline{} + \underline{} = \underline{}$

2. $37 + 24 = ?$

$\underline{} + \underline{} = \underline{}$

Break Apart Addends as Tens and Ones

$25 + 46 = ?$

Break apart 25 into tens and ones.   Break apart 46 into tens and ones.
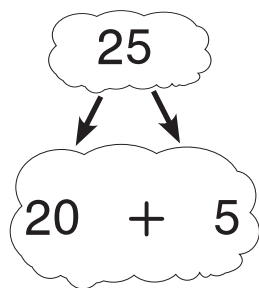
$$25 \quad + \quad 46$$

$$20 + 5 \quad + \quad 40 + 6$$
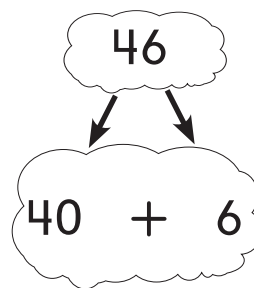
Then, add the tens from the two addends. $\underline{20} + \underline{40} = \underline{60}$

Add the ones from the two addends. $\underline{5} + \underline{6} = \underline{11}$

Add the two sums. $\underline{60} + \underline{11} = \underline{71}$

So, $25 + 46 = \underline{71}$.

Break apart the addends to find the sum.

1. $12 \quad + \quad 48 = ?$

___ + ___ + ___ + ___

Add the tens.   ___ + ___ = ___

Add the ones.   ___ + ___ = ___

How many in all? ___ + ___ = ___
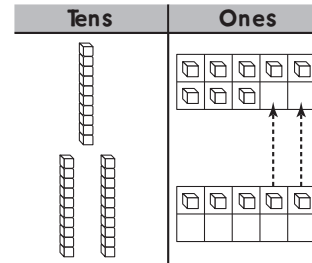
So, $12 + 48 = $ ___.

Model Regrouping for Addition

Add 18 and 25.
Show 18 and 25 with ▭▭▭ ▫.
Count the ones.
How many ones are there in all? **13** ones
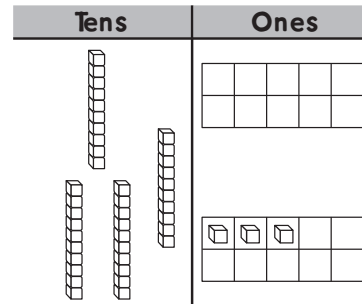
Can you make a ten? **yes**

Tens	Ones

Trade 10 ones
for 1 ten.
This is called
regrouping.
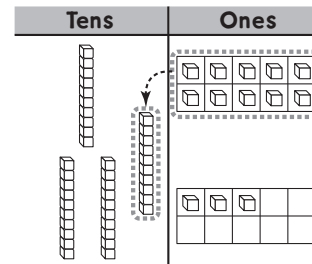
Tens	Ones

Count the tens. How many
tens are there in all? **4** tens

Count the ones. How many
ones are there in all? **3** ones

4 tens **3** ones is the same as **43**.

Tens	Ones

Write how many tens and ones in the sum.
Write the sum.

1. Add 46 and 19.
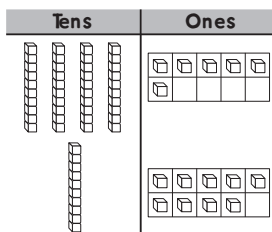
Tens	Ones

____ tens ____ ones

____

2. Add 45 and 27.
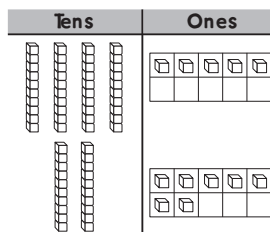
Tens	Ones

____ tens ____ ones

____

3. Add 58 and 38.
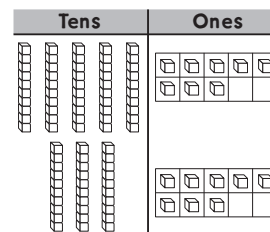
Tens	Ones

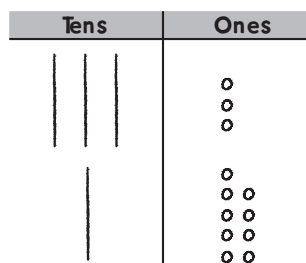____ tens ____ ones

____

Name _____

Model and Record
2-Digit Addition

Model 33 + 19.

How many ones are there in all? __12__ ones

Can you make a ten? __yes__

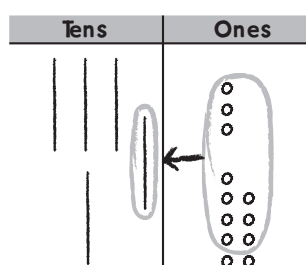| Tens	Ones
	3
3	3
+ 1	9

Regroup 10 ones as 1 ten.
Write a 1 in the tens column
to show the regrouped ten.

How many ones are left
after regrouping? __2__ ones
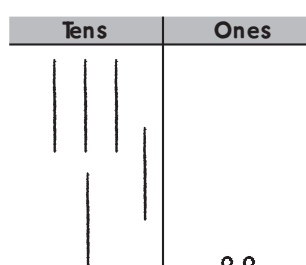
Write that number in the ones place.

Tens	Ones
1	
3	3
+ 1	9
	2

How many tens
are there in all? __5__ tens

Write that number
in the tens place.

Tens	Ones
1	
3	3
+ 1	9
5	2

Draw quick pictures to help you solve. Write the sum.

1.

Tens	Ones
4	7
+ 2	5

Tens	Ones

2.

Tens	Ones
3	6
+ 4	6

Tens	Ones

Name _____

2-Digit Addition

Add 27 and 36.

STEP 1	STEP 2	STEP 3
Show 27 and 36. Add the ones.	If you can make a 10, regroup 10 ones for 1 ten.	Add the tens. Remember to add the regrouped ten.
$7 + 6 = 13$	13 ones = 1 ten 3 ones	$1 + 2 + 3 = 6$
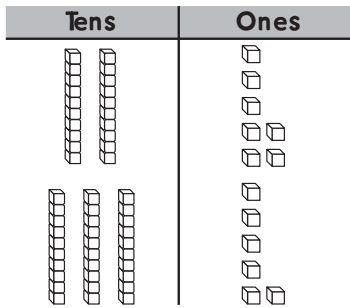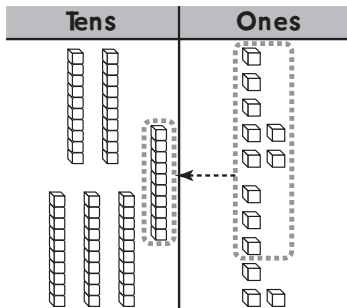
STEP 1

Tens	Ones
2	7
+ 3	6

STEP 2

Tens	Ones
1	
2	7
+ 3	6
	3

STEP 3
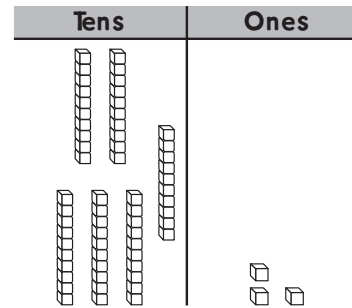
Tens	Ones
1	
2	7
+ 3	6
6	3

Regroup if you need to. Write the sum.

1.

Tens	Ones
5	4
+ 2	9

2.

Tens	Ones
1	7
+ 6	1

3.

Tens	Ones
4	1
+ 2	9

4.

Tens	Ones
3	5
+ 3	2

Name _____

Practice 2-Digit Addition

Eliza sold 47 pencils in one week.
She sold 65 pencils the next week.
How many pencils did she sell in both weeks?

Add 47 and 65.	Regroup.	Add the tens.
Add the ones.	12 ones = 1 ten and 2 ones	
$7 + 5 = 12$		$1 + 4 + 6 = 11$

Add 47 and 65.
Add the ones.
$7 + 5 = 12$

```
  [ ]
    4   7
 +  6   5
 _____
```

Regroup.
12 ones = 1 ten and 2 ones

```
  [1]
    4   7
 +  6   5
 _____
        2
```

Add the tens.
$1 + 4 + 6 = 11$

```
  [1]
    4   7
 +  6   5
 _____
   11   2
```

Write the sum.

1.
```
   [ ]
    4 3
 +  6 9
```

2.
```
   [ ]
    7 6
 +  5 8
```

3.
```
   [ ]
    3 8
 +  4 2
```

4.
```
   [ ]
    8 5
 +  6 8
```

5.
```
   [ ]
    8 2
 +  4 7
```

6.
```
   [ ]
    8 1
 +  1 7
```

7.
```
   [ ]
    2 7
 +  8 6
```

8.
```
   [ ]
    5 1
 +  3 8
```

Rewrite 2-Digit Addition

Add. $43 + 19 = ?$

STEP 1

What is the tens digit in 43? **4**

Write 4 in the tens column.
Write the ones digit, 3, in the ones column.

Tens	Ones
4	3
+	

STEP 2

What is the tens digit in 19? **1**

Write 1 in the tens column.
Write the ones digit, 9, in the ones column.

Tens	Ones
4	3
+ 1	9

STEP 3

Add the ones. Regroup if you need to.

Add the tens.

Tens	Ones
1	
4	3
+ 1	9
6	2

Rewrite the numbers. Then add.

1. $26 + 9$

2. $16 + 43$

3. $32 + 38$

4. $23 + 26$

Problem Solving • Addition

Hannah has 14 pencils. Juan has 13 pencils.
How many pencils do they have in all?

Unlock the Problem

What do I need to find?	**What information do I need to use?**
how many pencils	Hannah has __14__ pencils.
they have in all	Juan has __13__ pencils.

Show how to solve the problem.

Hannah's 14 pencils	Juan's 13 pencils

___?___ pencils in all

14 + 13 = ■ _____   __27__ pencils

Solve.

1. There are 21 peanuts in a bag. 16 more
   peanuts are put into the bag. How many
   peanuts are in the bag in all?

21 peanuts	16 peanuts

_____

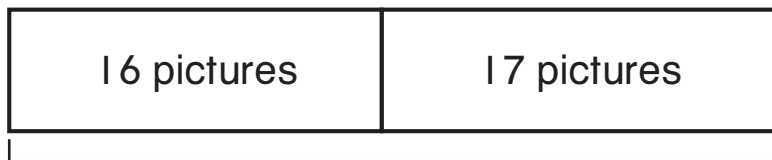_____ peanuts in all   _____ peanuts

Algebra • Write Equations to Represent Addition

Sara took 16 pictures.

Then she took 17 more pictures.

How many pictures did Sara take in all?

Use a bar model to show the problem.

16 pictures	17 pictures

_____?_____ pictures in all
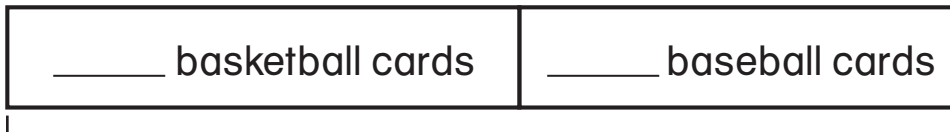
Write a number sentence. Solve.

$$16 + 17 = \blacksquare$$ 33 pictures

**Use a bar model to show the problem. Write a number
sentence. Use a ▉ for the missing number. Then solve.**

1. Josh has 18 basketball cards
and 14 baseball cards. How many
cards does he have altogether?

_____ basketball cards	_____ baseball cards

_____ cards altogether

_____   _____ cards

Algebra • Find Sums
for 3 Addends

You can add three numbers in different ways.
Start by adding the ones first.

$$\begin{array}{r} 14 \\ 22 \\ + 36 \\ \hline 72 \end{array}$$

Look at the column of ones digits. Choose two of the digits to add first. Then add the other digit.

$$4 + 6 = 10$$
$$10 + 2 = 12$$

Then add the tens.

$$1 + 1 + 2 + 3 = 7$$

$$\begin{array}{r} 14 \\ 22 \\ + 36 \\ \hline 72 \end{array}$$

Start at the top of the ones column. Add the first two digits, and then add the third digit.

$$4 + 2 = 6$$
$$6 + 6 = 12$$

Then add the tens.

$$1 + 1 + 2 + 3 = 7$$

Add.

1.
$$\begin{array}{r} 18 \\ 25 \\ + 32 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 40 \\ 37 \\ + 16 \\ \hline \end{array}$$

3.
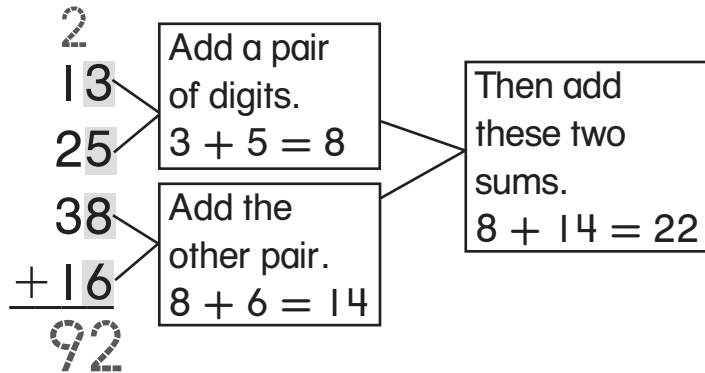$$\begin{array}{r} 13 \\ 21 \\ + 34 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 26 \\ 22 \\ + 23 \\ \hline \end{array}$$

Algebra • Find Sums
for 4 Addends

You can add 4 numbers in different ways.
One way is to add pairs of digits in the ones column.

```
  2
  13    ┌─────────────┐
        │ Add a pair  │       ┌──────────────┐
        │ of digits.  │       │ Then add     │
  25    │ 3 + 5 = 8   │       │ these two    │
        └─────────────┘       │ sums.        │
  38    ┌─────────────┐       │ 8 + 14 = 22  │
        │ Add the     │       └──────────────┘
+ 16    │ other pair. │
  ──    │ 8 + 6 = 14  │
  92    └─────────────┘
```

Then add the digits in the tens column.

Add.

1.
```
    43
    57
    32
  +  2
  ─────
```

2.
```
    24
    21
    19
  + 32
  ─────
```

3.
```
    21
    14
    20
  + 42
  ─────
```